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Mechanical Engineering News

Georgia Southern University

Georgia Southern hosts prestigious National Science Foundation Research Experience for Undergraduates (REU) in Green-Engineered Transportation Technologies

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This summer, ten high performing students from universities across the country are spending ten weeks at Georgia Southern, developing research abilities in the area of hybrid combustion technologies. The program aims to increase students' interest in conducting fundamental research, while developing Science, Technology, Engineering and Mathematical (STEM) problem solving skills. Student participants also have an opportunity to refine interpersonal and technical communications skills.

Student participating in the **"REU Site: Undergraduate Research in Green-Engineered New Transportation Technologies (URGENTT)"** are supported by a three-year NSF grant. The $360,000 NSF grant was awarded to a team of Georgia Southern faculty led by Dr. Valentin Soloiu, the Allen E. Paulson Distinguished Chair for Renewable Energy. Eight faculty from five departments in three colleges of the university will help deliver this program. Students receive stipends to support travel, housing, board and other necessary expenses. The research problem these students are working on is immediately significant and requires multidisciplinary strategies for success. Students develop an individual research program that is nonetheless integral to the greater team project. All participants attend lectures, seminars, workshops & labs and industrial visits to develop their knowledge of, and skills in energy, research methods, and technical writing.

Students have an opportunity to perform research in the Mechanical Engineering Department's Laboratory for Renewable Energy and Engines Combustion, which is housed in the Mechanical Engineering Department of the Allen E. Paulson College of Engineering and Information Technology. The laboratory is a state-of-the-art facility that includes engine dynameters, emissions analysis, and fuels characterization capabilities.

Students interested in participating in the Summer 2015 program should visit http://cec.georgiasouthern.edu/engine/ for more details.